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<110> Petrukhin, Konstantin
Caskey, Thomas C.

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<212> DNA

<213> Homo sapiens

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Ser Arg Trp Ala Gln Arg His Pro Gly Gly Ser Arg Leu Ile Gly His
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His Gly Ala Glu Asp Ala Thr Asp Ala Phe Arg Ala Phe His Gln Asp
65      70      75      80
Leu Asn Phe Val Arg Lys Phe Leu Gln Pro Leu Leu Ile Gly Glu Leu
85      90      95
Ala Pro Glu Glu Pro Ser Gln Asp Gly Pro Leu Asn Ala Gln Leu Val
100      105      110
Glu Asp Phe Arg Ala Leu His Gln Ala Ala Glu Asp Met Lys Leu Phe
115      120      125
Asp Ala Ser Pro Thr Phe Phe Ala Phe Leu Leu Gly His Ile Leu Ala
130      135      140
Met Glu Val Leu Ala Trp Leu Leu Ile Tyr Leu Leu Gly Pro Gly Trp
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Val Pro Ser Ala Leu Ala Ala Phe Ile Leu Ala Ile Ser Gln Ala Gln
165      170      175
Ser Trp Cys Leu Gln His Asp Leu Gly His Ala Ser Ile Phe Lys Lys
180      185      190
Ser Trp Trp Asn His Val Ala Gln Lys Phe Val Met Gly Gln Leu Lys
195      200      205
Gly Phe Ser Ala His Trp Trp Asn Phe Arg His Phe Gln His His Ala
210      215      220
Lys Pro Asn Ile Phe His Lys Asp Pro Asp Val Thr Val Ala Pro Val
225      230      235      240
Phe Leu Leu Gly Glu Ser Ser Val Glu Tyr Gly Lys Lys Lys Arg Arg
245      250      255
Tyr Leu Pro Tyr Asn Gln Gln His Leu Tyr Phe Phe Leu Ile Gly Pro
260      265      270
Pro Leu Leu Thr Leu Val Asn Phe Glu Val Glu Asn Leu Ala Tyr Met
275      280      285
Leu Val Cys Met Gln Trp Ala Asp Leu Leu Trp Ala Ala Ser Phe Tyr
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Ala Arg Phe Phe Leu Ser Tyr Leu Pro Phe Tyr Gly Val Pro Gly Val
305      310      315      320
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325      330      335
Trp Ile Thr Gln Met Asn His Ile Pro Lys Glu Ile Gly His Glu Lys
340      345      350
His Arg Asp Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu
355      360      365
Pro Ser Leu Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile
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Glu His His Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val
385      390      395      400
Ala Pro Leu Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu
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 Ile Ile Gly His His
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 <213> Homo Sapiens

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 <211> 85
 <212> PRT
 <213> Common sunflower

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 35 40 45
 His Leu Arg Ser Ile Ser Pro Ile Cys Arg Glu Leu Cys Lys Lys Tyr
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Leu Lys Thr Leu Arg
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<211> 53
<212> PRT
<213> Common sunflower

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Phe Ile Ala Phe His
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<213> Common sunflower

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<212> PRT
<213> Borago officinalis

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35 40 45
Asn Leu Arg Lys Ile Ser Pro Tyr Val Ile Glu Leu Cys Lys Lys His
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Asn Leu Pro Tyr Asn Tyr Ala Ser Phe Ser Lys Ala Asn Glu Met Thr
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<211> 87
<212> PRT
<213> Borago officinalis

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<210> 12
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 <213> Borago officinalis

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 Asp Ser Arg Leu Asn Lys Phe Met Gly Ile Phe Ala Ala Asn Cys Leu
 20 25 30
 Ser Gly Ile Ser Ile Gly Trp Trp Lys Trp Asn His Asn Ala His His
 35 40 45
 Ile Ala Cys Asn Ser Leu Glu Tyr Asp Pro Asp Leu Gln Tyr Ile Pro
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 Phe Leu Val Val
 65

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 <213> Synechocystis Sp. (Strain PCC 6803)

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 Leu Phe Pro Asn Ile Cys His Ile His Tyr Pro Gln Leu Glu Asn Ile
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 Ile Lys Asp Val Cys Gln Glu Phe Gly Val Glu Tyr Lys Val Tyr Pro
 35 40 45
 Thr Phe Lys Ala Ala Ile
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23

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24